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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/092,133	03/06/2002	Michael D. Adams	X0201A	4785

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EXAMINER

LEA EDMONDS, LISA S

ART UNIT	PAPER NUMBER
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2835

DATE MAILED: 08/22/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/092,133

Applicant(s)

ADAMS ET AL.

Examiner

Lisa Lea-Edmonds

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 06 March 2002.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-40 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-40 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 06 March 2002 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 3.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Claim Objections

1. Claim 13 objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. Claim 13 appears to be a copy of claim 7, both of which depend from claim 1.

Claim Rejections - 35 USC § 112

2. Claims 3, 9, and 16 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claims 3, 9, and 16 recites the limitation "primary grip" in line 1 and "secondary grip" in line 2. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-14, and 16-40 are rejected under 35 U.S.C. 102(b) as being anticipated by Friend et al. (6052279). With respect to claims 1-7 and 13, Friend et al. teaches an ergonomic hand held flat panel display device (10), the device comprising: a housing (12), a touch responsive flat panel display screen (28) disposed on one major face of said housing (12), a primary handgrip (16) and a secondary handgrip (16) on said display housing (12) wherein said primary hand grip (16) and said secondary handgrip

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(16) are disposed on opposing sides of said housing (12), both of said handgrips (16) wrapping around said housing (12) from the front to the back of said housing (12), both of said handgrips (16) further angled inward towards the back of the display device (10), a printed circuit board inside said housing in electrical contact with and enabling said flat panel display (28) to display computer output, a connector (28, 40, 42) for receiving power and output signal from a computer said output signal to be displayed on said flat panel display (28), wherein the display device (10) comprises at least two tactile ridges (18) disposed on each of said handgrips (16), wherein said primary grip (16) is physically larger in surface area than said secondary grip (16) (see figures 1 and 2), wherein said primary handgrip (16) and said secondary handgrip (16) are contoured to fit a user's hand and have only rounded edges to maximize comfort against a user's hand, wherein mass inside said housing (12) is distributed towards the primary handgrip, wherein said primary and secondary handgrips (16) are composed of rubber or other suitable shock absorbing friction enhancing material, wherein both of said handgrips (16) are curved inward toward the back of said display device (10) an angle greater than 0 degrees but less than 45 degrees. With respect to claims 8-12, Friend et al. teaches a hand held flat panel display device (10) comprising: a display housing (12) containing a touch screen display (28) with an underlying flat panel display disposed on a major front face of said housing (12) containing a printed circuit board in electrical contact with and for outputting video signals to said flat panel display and for performing computer operations, including at least a microprocessor, volatile and non-volatile storage, and video graphics hardware to provide signal and control to said flat panel

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display, a primary handgrip (16) and a secondary handgrip (16) on said display housing (12) wherein said primary handgrip (16) and said secondary handgrip (16) are disposed on opposing ends of said housing (12), both of said handgrips (16) wrapping around said housing (12) from the front to the back of said housing (12), both of said handgrips (16) further angled inward towards the back of the display device (10), and further wherein said primary handgrip (16) surrounds a removable battery (54), which can be selectively engaged or disengaged from said housing (12), wherein said primary handgrip (16) is physically larger in surface area than said secondary handgrip (16), wherein said primary handgrip (16) and said secondary handgrip (16) are contoured to fit a user's hand and have only rounded edges to maximize comfort against a user's hand, wherein said device (10) is operable for right handed or left handed use such that a user may always hold the device using at least the primary handgrip (16), wherein said primary and secondary handgrips (16) are composed of other suitable shock absorbing friction enhancing material. With respect to claims 14, and 16-21, Friend et al. teaches an ergonomic hand held flat panel display device (10) comprising: a housing (12), a touch screen (28) disposed on one major face of said housing (12), a flat panel display behind said touch screen and responsive to said touch screen, a primary handgrip (16) and a secondary handgrip (16) on said display housing (12) wherein said primary handgrip (16) and said secondary handgrip (16) are disposed on opposing sides of said housing (12), both of said handgrips (16) wrapping around said housing (12) from the front to the back of said housing (12), said handgrips (16) further angled inward towards the back of the display device (10), a printed circuit board inside said

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housing enabling electrically connected to and said flat panel display and enabling said flat panel display to display computer output and selectively to perform independent computer functions, said circuit board comprising at least a microprocessor, volatile and nonvolatile storage, and video graphics hardware for sending output to and controlling said flat panel display, a connector for receiving power and output signal from a computer said output signal to be displayed on said flat panel display, wherein said primary grip (16) is physically larger in surface area than said secondary grip (16), wherein the display device (10) comprises at least two tactile ridges (18) disposed on each of said handgrips (16), wherein said primary handgrip (16) and said secondary handgrip (16) are contoured to fit a user's hand and have only rounded edges to maximize comfort against a user's hand, wherein said primary handgrip (16) surrounds a battery (54) which powers said display device (10), wherein said battery (54) may be selectively engaged or disengaged by a user, wherein said primary and secondary handgrips (16) are composed of rubber or other suitable shock absorbing friction enhancing material, wherein both of said handgrips (16) are curved inward toward the back of said display device an angle greater than 0 degrees but less than 45 degrees. With respect to claims 22-25, Friend et al. teaches an ergonomic hand held flat panel display device (10) comprising: a housing (12), a touch screen (28) disposed on one major face of said housing (12), a flat panel display behind said touch screen (28) and responsive to said touch screen (28), a primary handgrip (16) and a secondary handgrip (16) on said display housing (12) wherein said primary handgrip (16) and said secondary handgrip (16) are disposed on opposing ends of said housing (12), both of

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said handgrips (16) wrapping around said housing (12) from the front to the back of said housing (12), said handgrips (16) further angled inward towards the back of the display device (10), a printed circuit board inside said housing (12) in electrical contact with and enabling said flat panel display to display computer output, wherein said handgrips (16) are angled towards the back of the display device (10) at an angle greater than 0 degrees but less than 45 degrees, wherein at least two tactile ridges (18) are disposed on each of said handgrips (16), wherein the device (10) further comprising a wireless receiver (36) inside said housing (12) and in electrical communication with said circuit board for communicating and selectively receiving information from another computer wirelessly. With respect to claims 26-33, Friend et al. teaches a hand held flat panel computer display unit (10) comprising in combination: a display housing (12) comprising at a front and back side; a touch screen (28) disposed on one major face of said housing; a primary and a secondary handgrip (16) on opposing terminal sides of said housing (12), both of said handgrips (16) wrapping in a rounded configuration around said terminal sides of said housing (12), each of said handgrips (16) being electrical insulating and substantially non-skid, a printed circuit board inside said housing (12) adapted to be in contact with said touch screen (28) to enable said flat panel display to display computer output, wherein a mass of said unit is distributed nearer to said primary handgrip (16) than it is to said secondary handgrip (16), wherein said handgrips (16) are angled inward toward the back side of said housing at an angle greater than 0 and less than 45 degrees, wherein said primary handgrip (16) is physically larger in surface area than said secondary grip (16), wherein both of said handgrips (16) are

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composed of rubber or other suitable shock absorbing; friction enhancing material, wherein at least one of said terminal sides has an electrical cable connected thereto, wherein the flat panel display has at one of said terminal sides a removable power supply (54) which is also part of a handgrip (16), wherein the flat panel display has a connector (38, 40, 42) adapted to be connected to a computer. With respect to claims 34-40, Friend et al. teaches an ergonomic flat panel computer display device (10) comprising: a housing (12), a touch responsive flat panel display screen (28) disposed on one major face of said housing, a pair of hand grips on opposing ends of said housing, said handgrips (16) wrapping around from the display screen face of said housing (12) to the opposing face of said housing (12) and said handgrips further angled inward toward said opposing face, wherein said display device (10) is adapted as an external display for a computer, wherein said display device is adapted to function as an independent computer, wherein internal components in of said device is distributed nearer to one of said handgrips (16) than the other handgrip (16), wherein said handgrips (16) are angled inward toward the back side of said housing (12) at an angle greater than 0 and less than 45 degrees, wherein said handgrips are composed of a shock absorbing, non-skid, electrically insulating material, wherein the flat panel display (10) has at one side a removable power supply (45) which is also part of a handgrip (16). With respect to the printed circuit board as claimed, although Friend et al. does not implicitly show a printed circuit board, it is inherent that a display device have a printed circuit board to hold the IC's.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claim 15 is rejected under 35 U.S.C. 103(a) as being unpatentable over Friend et al. as applied to the claims above, and further in view of Bertram (5801941). With respect to claim 15, Friend et al. teaches the invention as set forth in above, however, Friend et al. lacks a teaching of the display device being operable in a first passive mode of operation and a second active mode of operation as claimed. The apparatus of Bertram is relied upon for its teaching of a display device being operable in a first passive mode of operation and a second active mode of operation, wherein during said first mode of operation the display device performs as a display for another computer and in a second mode of operation the display device performs as an independent computer utilizing its own computer hardware for processing power as claimed (see for example figures 1-3). It would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teachings of Bertram into the apparatus of Friend et al. to expand the functions of the display device.

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Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Please note the display devices of Silva et al. (5404267), Kochis et al. (5568357), Schmeisset et al. (D451097) and Sallam et al. (EP 1022644 A1).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lisa Lea-Edmonds whose telephone number is 703-305-0265. The examiner can normally be reached on Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg can be reached on 703-308-4815. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-1782.

Lisa Lea-Edmonds
Examiner
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A handwritten signature in black ink, appearing to read "Lisa Lea-Edmonds", written in a cursive style.